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DATE MAILED: 11/19/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

7055 7590 11/19/2009 GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191 EXAMINER

KASZTEINA, MATTHEW JOHN

ART UNIT PAPER NUMBER

3739

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/771,403	02/05/2004	Shinsuke Okada	P24588	3854			
TITLE OF INVENTION: OBJECTIVE LENS UNIT FOR ENDOSCOPE							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/19/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	form should be used I correspondence including ed below or directed oth tions.	or transmitting the ISS ig the Patent, advance of serwise in Block 1, by (UE FEE and PUBLICATI orders and notification of n (a) specifying a new corres	naintenance fees wil pondence address; a	ed). Blocks I through 5 Il be mailed to the curren and/or (b) indicating a sep	should be completed when t correspondence address a varate "FEE ADDRESS" fo
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						(Signature)
						(Date)
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/19/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS]		
KASZTEJNA, M.	ATTHEW JOHN	3739	600-176000			
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address' 2 or more recent) attach	nge of Correspondence Indication form ed. Use of a Customer TO BE PRINTED ON	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be THE PATENT (print or typ	vely, e firm (having as a r ugent) and the names rneys or agents. If no printed.	member a 2 s of up to o name is 3	CI.I.C.
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4a. The following fee(s): ☐ Issue Fee ☐ Publication Fee (N ☐ Advance Order - #	o small entity discount p		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attached.	eshown above) eficiency, or credit any an extra copy of this form).
	s SMALL ENTITY statu	s. See 37 CFR 1.27.			ENTITY status. See 37 C	
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10/771,403	02/05/2004	Shinsuke Okada	P24588	3854	
7055 7	590 11/19/2009		EXAMINER		
GREENBLUM	& BERNSTEIN, P.L.	KASZTEJNA, MATTHEW JOHN			
1950 ROLAND CLARKE PLACE			ART UNIT	PAPER NUMBER	
RESTON, VA 20	191		3739		
			DATE MAILED: 11/19/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 359 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 359 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/771,403 OKADA, SHINSUKE Notice of Allowability Examiner Art Unit MATTHEW J. KASZTEJNA 3739 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment filed 8/5/09. 2. The allowed claim(s) is/are 1 and 6-23. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 11/28/8 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other . /Matthew J Kaszteina/ 11/4/09 Primary Examiner, Art Unit 3739

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The prior art does not teach or fairly suggest the apparatus and method claims as recited in independent claims 1 and 10 of the instant invention comprising, *inter ailia* an objective optical system configured to be implemented in a tip of an endoscope comprising, first and second lens barrels engaged with one another along a common axis, having first and second optical system therein and a fixing unit having a threaded surface used to fix the first optical system within the first lens barrel and define a clearance between the first and second lens barrels and comprising an alignment lens within the first lens barrel which is movable in a direction perpendicular to an optical axis via pins inserted into a plurality of unthreaded holes of the first lens barrel.

Onda (U.S. Patent No.6,590,721) discloses a first lens unit having a first lens barrel 1 and a first optical system including a plurality of lens 2, 3 elements assembled in said first lens barrel and aligned in a direction of a first common optical axis (see Fig. 1 and Col. 3, Lines 1-10) wherein said first lens unit includes an alignment lens 2 movable in a direction perpendicular to an optical axis thereof, movement of the alignment lens in the direction perpendicular to the optical axis alone adjusting an alignment of the entire plurality of lens elements assembled in the first lens unit (see Fig. 1), said first lens barrel being formed with a plurality of unthreaded holes 7 through which parts of a circumferential surface of said alignment lens are exposed (see Fig. 2), said alignment lens movably accommodated in said first lens barrel, and said alignment lens moved, in the direction perpendicular to the optical axis, by pins inserted through

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said plurality of holes, respectively (see Col. 4, Lines 1-20). However, Onda is silent with respect to a second lens unit having a second lens barrel, engagable with said first lens barrel, and a second optical system including a plurality of lens elements aligned in a direction of a second common optical axis, and wherein, when the first lens barrel is engaged with the second lens barrel. Furthermore, Onda is silent with respect to a fixing unit (i.e. holding ring 93 of instant invention) having a threaded surface which is used to securely engage the first and second lens barrels to one another as well as accurately position the various lenses within the first lens barrel. Thus, Onda fails to meet the current limitations of the claims of the instant invention.

Tsuyuki et al. (U.S. Patent No. 5,547,457) disclose an objective optical system configured to be implemented in a tip of an endoscope, comprising: a first lens unit having a first lens barrel 30 and a first optical system 29 including a plurality of lens L1, L2, L3 elements assembled in said first lens barrel and aligned in a direction of a first common optical axis: and a second lens unit having a second lens barrel 11, engageable with the first lens barrel, and a second optical system including a plurality of lens L4, L5 elements aligned in a direction of a second common optical axis, wherein, when the first lens barrel is engaged with the second lens barrel, the lens elements of the first and second lens barrels are aligned along a common axis, the first common axis and the second common axis comprising the common axis (see Figs. 5-6 and col. 8, Lines 18-67). However, Tsuyuki et al. also fail to disclose a fixing unit having a threaded surface which is used to position the first optical system within the first lens barrel as well as securely engage the first and second lens barrels to one another.

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Furthermore, Tsuyuki et al. fail to teach or fairly suggest alignment of an individual lens, by pins or by any other mechanism. Thus, Tsuyuki et al. fail to meet the current limitations of the claims of the instant invention.

Wilczynski et al. (U.S. Patent No. 3,560,080) disclose an optical instrument comprising one or more adjustable lens elements and rings, the elements and rings being encased in a cylindrical barrel 33 formed with slots 30, 31, 32 or apertures for a wide range of openings so that lateral and rotative adjustment may be made in all directions to compensate for deficiencies in the manufacture of the separate elements making up the instrument (see Col 2, Lines 47-55). However, each individual lens element of Wilczynski et al. must be separately adjusted and thus there is no particular alignment lens such that movement of the individual lens alone, in a direction perpendicular to an optical axis, performs an alignment of all the plurality of lens elements of the first unit as required by the instant invention. Wilczynski et al. also provide a series of axially extending slots rather then an unthreaded hole that exposes parts of an alignment lens without exposing the circumferential surfaces of the other lenses within the first lens unit. Thus, Wilczynski et al. fail to meet the current limitations of the claims of the instant invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW J. KASZTEJNA whose telephone number is (571)272-6086. The examiner can normally be reached on Mon-Fri, 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C.M. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Matthew J Kasztejna/ Primary Examiner, Art Unit 3739

11/4/09